

Schedule of Major BTeV Work at C0 (3/9/04 Draft)

Period	Collision Hall Activity	Assembly Hall Activity	Counting Room Activity	C0 Tunnel IR Activity	C0 Service Bldg. & External Act
2005 Shutdown (Aug 8-Sept 30) Change Lattice for New C0 Straight Section	<ul style="list-style-type: none"><li>Remove MI Dipoles and most of shielding blocks</li><li>Install 4" beam pipe</li><li>Modify LCW headers to supply Collision Hall and Assembly Hall</li><li>Install ODH wall on u.s. and d.s. ends of collision hall</li></ul>	<ul style="list-style-type: none"><li>Modify LCW headers to supply Collision Hall and Assembly Hall</li></ul>		<ul style="list-style-type: none"><li>Remove MI Dipoles</li><li>Install new synch Light monitor in D4</li><li>Extend LCW to Coll &amp; Assembly Hall</li><li>Install ODH wall on u.s. and d.s. ends of collision hall</li></ul>	<ul style="list-style-type: none"><li>Inspect and repack Feeders and Manholes from KRS to B4</li></ul>
Fall 2005 - Summer 2006		<ul style="list-style-type: none"><li>Install power for magnet PS</li><li>Install house power</li><li>Install fire detection/protection</li><li>Complete block walls and remove scaffold</li><li>Install air handlers in mech. Room</li></ul>	<ul style="list-style-type: none"><li>Install structural and floors</li></ul>		
		<ul style="list-style-type: none"><li>Assemble Vertex Magnet</li><li>Assemble South Toroid (shielding) with B2</li></ul>			
2006 Shutdown (Aug 7-Sept 29)	<ul style="list-style-type: none"><li>Install power and panel boards</li><li>Install fancoils and ductwork</li></ul>			<ul style="list-style-type: none"><li>Remove Q1 magnets and P spools from A4/B1</li><li>Begin installing low Beta quad bus in tunnel (B4,C1)</li></ul>	
	<ul style="list-style-type: none"><li>Install Vertex Magnet</li><li>Install South Toroid with B2</li><li>Install North B2 on shielding blocks</li><li>Install gate valves, vacuum instrument cross and new temporary center beam pipe</li></ul>				
Fall 2006 - Summer 2007		<ul style="list-style-type: none"><li>Assemble North Toroid with B2</li><li>Begin mounting Muon Chambers on North Toroid</li><li>Assemble RICH tank frame</li></ul>	<ul style="list-style-type: none"><li>Install ground plane</li><li>Install ECW headers (1<sup>st</sup> floor)</li><li>Install raised floor</li><li>Install power up to panels</li><li>Finish out counting rooms</li></ul>		<ul style="list-style-type: none"><li>Complete C0 service building modifications</li><li>Complete 500 kva and 1500 kva transformer installation at B4,C1,C0 service buildings</li><li>KRS to B4</li></ul>
2007 Shutdown (Aug 6-Sept 28)	<ul style="list-style-type: none"><li>Commission fancoils &amp; ductwork</li></ul>			<ul style="list-style-type: none"><li>Continue installation of low Beta quad bus in tunnel (B4,C1)</li><li>Remove collimators from E0</li></ul>	
	<ul style="list-style-type: none"><li>Remove B2 and shield blocks</li><li>Install North Toroid with B2 and some Muon chambers</li><li>Install 10 % Pixel Test</li><li>Install Straw station 3 Chambers</li></ul>				
Fall 2007 - Summer 2008		<ul style="list-style-type: none"><li>Install RICH Mirrors and some PMT's</li><li>Assemble ECAL Structure and begin installing ECAL crystals (as available)</li></ul>	<ul style="list-style-type: none"><li>Begin installation of counting room rack power and cooling connections</li><li>Begin installing 1<sup>st</sup> floor counting room racks</li></ul>		
2008 Shutdown (Aug 4-Sept 26)	<ul style="list-style-type: none"><li>Install partially filled ECAL Structure</li><li>Install RICH tank and perform in-situ mirror alignment</li><li>Install additional Muon Chambers</li></ul>		<ul style="list-style-type: none"><li>Begin installation of HVPS</li><li>Install HV cables</li><li>Install DAQ data cables</li><li>Begin installation of slow controls</li></ul>	<ul style="list-style-type: none"><li>Add B2 removal features in tunnel ???</li></ul>	
Fall 2008 - Spring 2009		<ul style="list-style-type: none"><li>Install infrastructure and detector systems (ECW, Straw cooling, etc)</li><li>Staging for Full Pixel and Forward Tracking installation</li></ul>	<ul style="list-style-type: none"><li>Begin installing L1 trigger crates and DAQ in 1<sup>st</sup> floor counting room racks</li><li>Begin installing L2/3 trigger equipment in 3<sup>rd</sup> floor counting room</li><li>Complete installation of HVPS</li></ul>		
2009 Shutdown (June 1-Sept 30) Extended Shutdown for new IR and final Detector Installation	<ul style="list-style-type: none"><li>Install Pixel</li><li>Install forward tracking beam pipe</li><li>Install forward tracking stations 1-6, &amp; 7</li><li>Complete RICH</li><li>Complete ECAL</li><li>Complete Muon</li><li>Complete Rack Mounting &amp; Service Decking</li></ul>		<ul style="list-style-type: none"><li>Complete installation of L1 trigger crates and DAQ in 1<sup>st</sup> floor counting</li><li>Complete installation of L2/3 trigger equipment in 3<sup>rd</sup> floor counting room</li></ul>	<ul style="list-style-type: none"><li>Complete Installation of C0 IR</li></ul>	

Legend

- WBS 1.0 - Detector
- WBS 2.0 - IR
- WBS 3.0 - C0 Outfitting